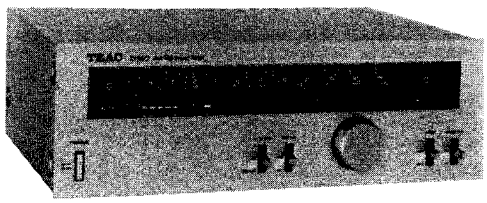
TEAC®



SERVICE MANUAL

TX-550/TX-550B

AM/FM Stereo Tuner

CAUTION

⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components - refer to the TEAC Parts List and ensure exact replacement.

Effective: Sep. 1980 C00004 5704006200

1 SPECIFICATIONS AND SERVICE DATA

FM Tuner Section

Tuning Range	88 MHz – 108 MHz
Antenna Impedance	300 ohms balanced/75 ohms unbalanced
Usable Sensitivity (New IHF)	MONO, 10.8 dBf (1.9μV)
50 dB Quieting Sensitivity (New IHF)	MONO, 14.0 dBf (2.7μV)
	STEREO, 38.0 dBf (43μV)
Signal-to-Noise Ratio	MONO, 80 dB
	STEREO, 65 dB
Capture Ratio	1.0 dB
AM Suppression Ratio	55 dB
Image Response Ratio	40 dB
IF Response Ratio	75 dB
Spurious Response Ratio	70 dB
Selectivity	65 dB
Harmonic Distortion	400 Hz, MONO, 0.08 %
	400 Hz, STEREO, 0.15 %
Stereo Separation	1 kHz 40 dB
Subcarrier Product Ratio	65 dB
Frequency Response	30 Hz – 15 kHz, ±1.0 dB
Output Level/Impedance	100 % Modulation Level, 700 mV/1 kΩ
Rec Cal. Tone Level	50 % Modulation Level, 400 Hz, 350 mV

AM Tuner Section

Tuning Range	525 kHz – 1605 kHz
Usable Sensitivity	Ext. Antenna, 100μV/m
Selectivity	1 kHz, 30 dB
Signal-to-Noise Ratio	45 dB
Image Response Ratio	1 kHz, 60 dB
Harmonic Distortion	1 kHz, 1.5 %
Output Level/Impedance	30 % Modulation, Level, 180 mV/1 kΩ

General

Dimensions (W x H x D) 410 x 140 x 306 mm (16 – 1/8" x 5 - 1/2" x 12 – 1/16")

Weight 6.0 kg (13 - 4/16 lbs) net

Power Requirements and Consumption

MODEL	Voltage (V)	Frequency (Hz)	Consumption (W)
GENERAL EXPORT	100,117,220,240	50/60	13
EUROPE	220	50	13
U.K./AUS.	240	50	13
U.S.A./CANADA	117	60	13

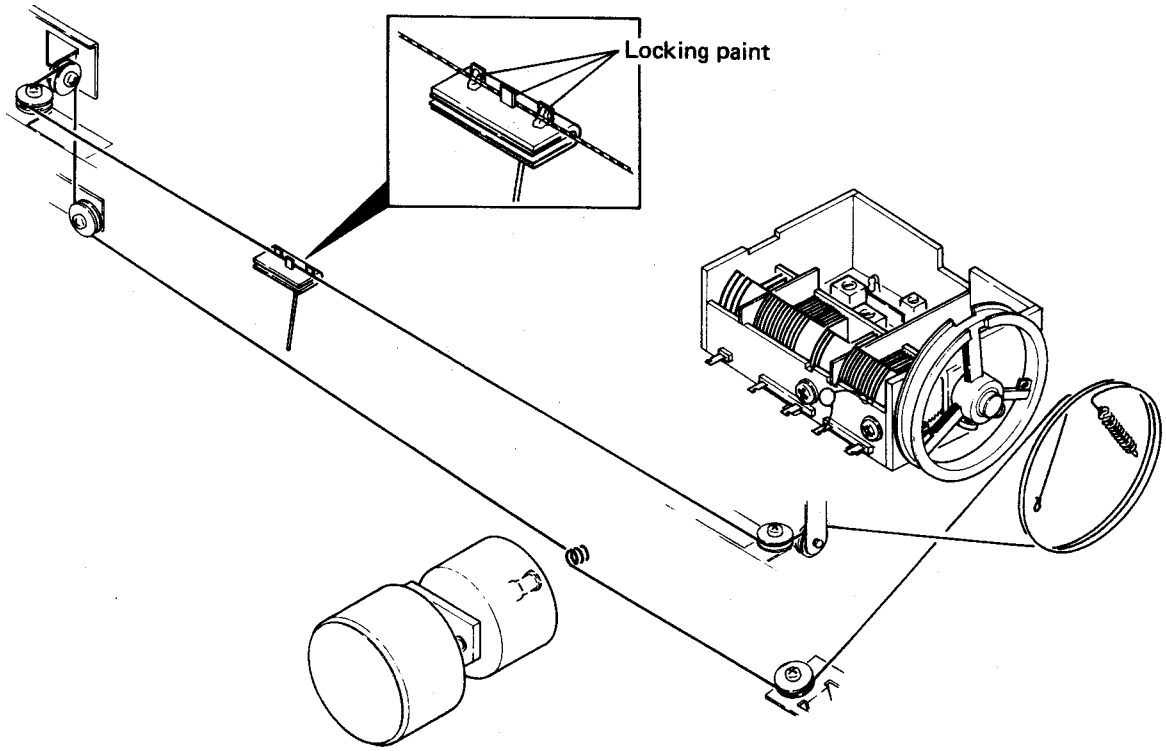
The power requirements for products distributed in certain countries of Europe, U.K., Australia, Canada and the United States are not adjustable.

• Improvements may result in features or specifications changing without notice.

2 DIAL CORD STRIHG PATH AND VOLTAGE CONVERSION

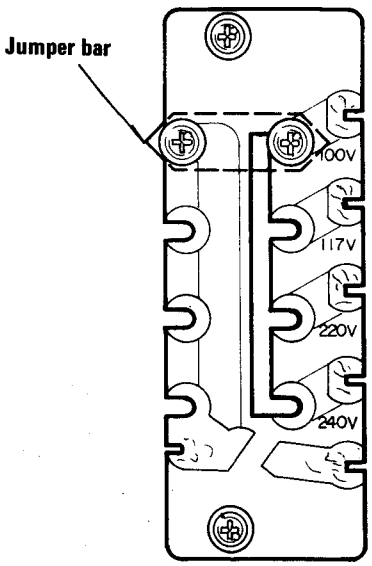
2-1 DIAL CORD STRING PATH

NOTE: Prior to removing old dial cord for replacement, carefully inspect winding path and connection method to insure that the new dial cord string can be properly installed.



2-2 VOLTAGE CONVERSION (GENERAL EXPORT MODEL ONLY)

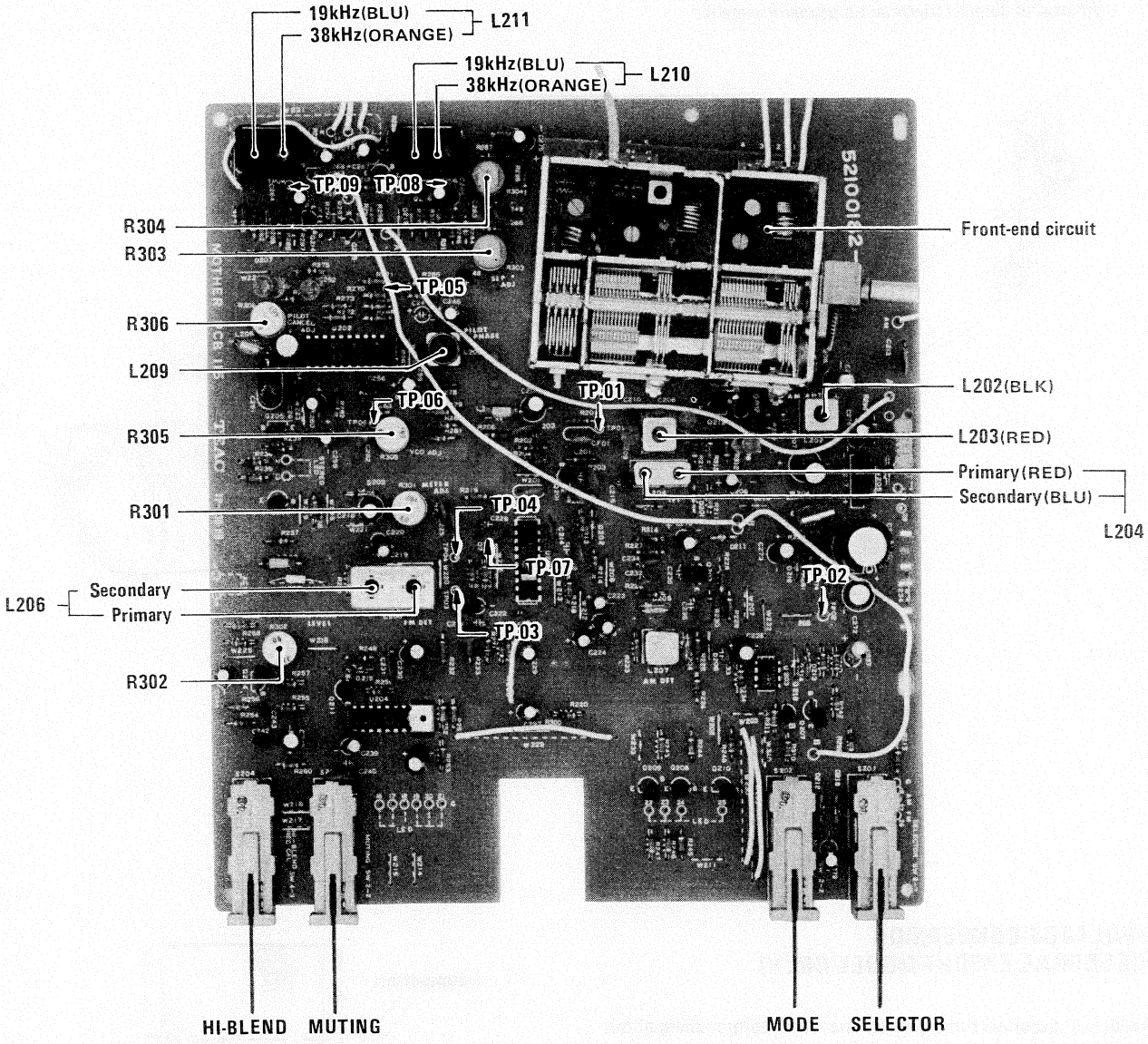
1. Always disconnect the power line cord before making this adjustment.
2. Remove the top cover of the TX-550(B) by removing the screws from the sides.
3. Locate the voltage selector on the left side of the TX-550(B).
4. Loosen the two screws in the jumper bar and move the bar so that it jumpers the opposing terminals marked with the required voltage (100, 117, 220 or 240).
5. Retighten the screws and replace the top cover.



VOLTAGE SELECTOR

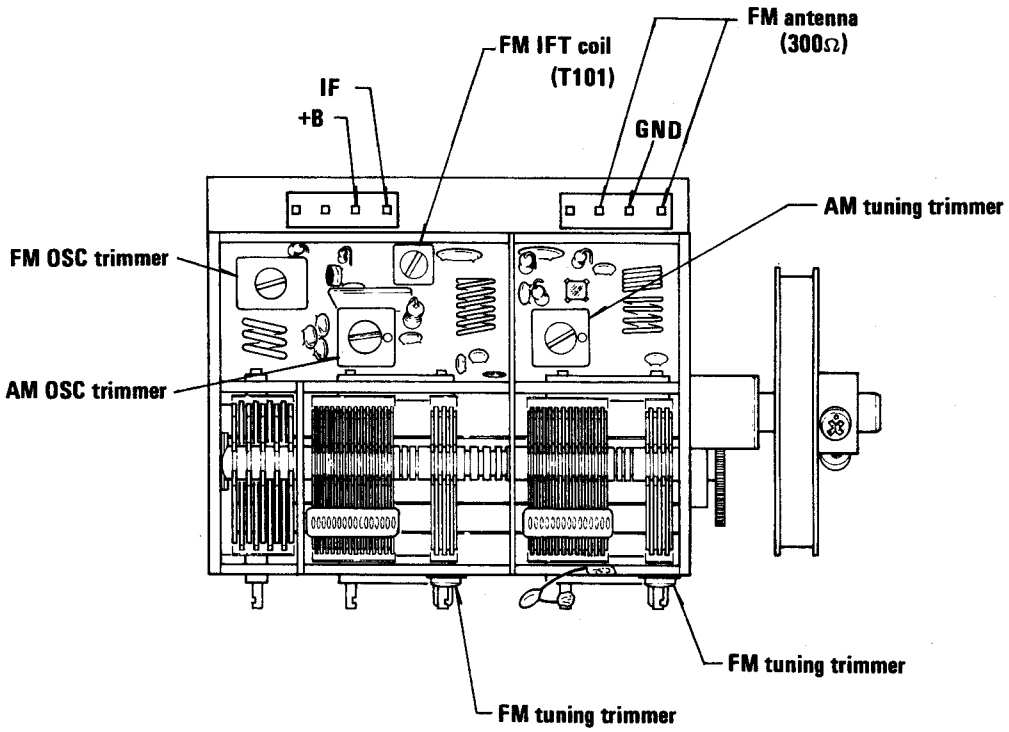
3 ADJUSTMENT POINTS AND REQUIRED EQUIPMENT

3-1 ADJUSTMENT POINTS



R301	Meter level adj.	L202	AM antenna coil
R302	CAL TONE level adj.	L203	AM OSC coil
R303	Separation adj.	L204	AM IFT coil
R304	Separation adj.	L206	FM DET. coil
R305	VCO freq. adj.	L209	19 kHz phase adj. coil
R306	Pilot cancel adj.	L210	Low pass filter
—		L211	Low pass filter

3-2 FRONT-END SECTION PARTS LOCATION



3-3 REQUIRED EQUIPMENT

IF SWEEMAR SCOPE VP-8911A
VHF SWEEMAR SCOPE VP-8914A
MW SWEEMAR SCOPE VP-8912A
FM Signal Generator
AM Signal Generator
Stereo Modulator
Frequency Counter
AC Voltmeter
DC Voltmeter (A differential voltmeter is preferable.)
Oscilloscope

GENERAL NOTICE

Overall adjustment and alignment procedures are outlined below. The TX-550(B) Tuner utilizes the latest circuitry and most modern materials and techniques. Since the TX-550(B) is similar in design to those of other leading manufacturers, general alignment and servicing procedures may be followed. However, if you do not prossess the required test equipment or should you fail to understand the circuit operation, alignment should not be attemped.

4 ADJUSTMENTS

4-1 FM ADJUSTMENT PROCEDURES

Common to all items **SELECTOR : FM**

ITEM		INITIAL SETTING	INPUT	ADJUSTING POINT	OUTPUT	ADJUSTMENT	REFERENCE
1.TRACKING ADJ.		VHF SWEEMAR SCOPE setting Marker frequencies A : 87.4 MHz B : 93 MHz C : 98 MHz D : 108 MHz E : 109 MHz	ANT (300Ω)		TP. 07	Center & Width: Set so as to make all five marker frequencies appear on the scope. RF OUT dB: 30 dB GAIN: Set for correct observation of the vertical sensitivity and position.	Fig. 1
	1-1	Dial pointer : at the right end		OSC Trimmer (Front-end)		Adjust so that the wave peak matches marker frequency E.	Fig. 2-1
	1-2	Dial ponter : at the left end				Check that wave peak matches marker freq. A.	Fig. 2-2
	1-3	Turn the tuning knob so that the wave peak matches marker D.				Check that dial pointer indicates 108 MHz.	Fig. 2-3
	1-4	Turn the tuning knob so that the wave peak matches marker C.				Check that dial pointer indicates 98 MHz.	Fig. 2-4

After the above procedures have been followed, connect an FM signal generator to the TX-550(B) as shown in Fig. 3 and set both pieces of equipment as follows :

TX-550(B)
HI BLEND : OUT
MUTING : OUT
MODE : MONO

FM signal generator
Frequency : 106 MHz
Modulation : 1 kHz, 100 % (75 kHz deviation)
Set the output level so that the TX-550(B) input is between 50 to 60 dBf.
(See NOTE 1 on page 7.)

NOTE: If there is a difference in the output level between the channels and/or extreme distortion occurs, skip to Item 8, "Separation Adjustment", before beginning Item 2, "Detector Adjustment".

2.DETECTOR ADJ.	2-1	Stop input into the TX-550. Dial pointer : at 106 MHz	NO SIGNAL	L206 Primary (right) core	TP. 03 TP. 04	Adj. DC voltmeter to read 0V.	Fig. 4
	2-2	Set the FM SG output level so that the TX-550 ANT input is 65 dBf. (Freq=106 MHz)	ANT (300Ω)	FM SG freq. adj. point	TP. 03 TP. 04	Adj. DC voltmeter to read 0V.	Fig. 4
	2-3			L206 Secondary (left) core	OUTPUT	Adjust to minimize the L-ch output distortion factor (Repeat 2 - 1 and 2 - 3)	Fig. 5
3.DISTOR-TION ADJ.	3-1	Set the FM SG output level so that the TX-550 ANT input is 25 dBf. (Freq. 106 MHz)	ANT (300Ω)	FM IFT Coil FM Tuning Trimmer	OUTPUT	Adjust to minimize the L-ch output distortion factor.	Fig. 5
4.TUNNING LED Check	4-1	Set the FM SG output level so that the TX-550 ANT input is 65 dBf.	ANT (300Ω)		TUNING LED	If dial pointer is below 106 MHz, ▷ LED lights.	
	4-2					If dial pointer is exactly at 106 MHz, both ▷ & ◁ are off.	
	4-3					If dial pointer is above 106 MHz, ◁ LED lights.	
5.SIGNAL LED ADJ.	5-1		ANT (300Ω)	R301	SIGNAL LED	Turn R301 fully clockwise then counterclockwise until 5th LED lights.	
6.VCO FREQ. ADJ.	6-1	FM SG modulation : OFF PILOT signal : OFF Mode of TX-550 : STEREO	ANT (300Ω)	R305	TP. 06	Freq. counter: 76 kHz ±50 Hz.	Fig. 6
	6-2					Check that STEREO LED does not light.	
	6-3	PILOT signal : ON	ANT (300Ω)		TP. 06	Frequency counter indication is within ±50 Hz.	Fig. 6
						Check that STEREO LED lights.	

ITEM		INITIAL SETTING	INPUT	ADJUSTING POINT	OUTPUT	ADJUSTMENT	REFERENCE
7. MPX SECTION ADJ.	7-1	FM SG modulation : OFF PILOT signal : ON	ANT (300Ω)			STEREO LED: ON	
	7-2			R306	TP. 05	If waveform appears as in Fig. 9-1 or 9-2, adj. so waveform is like that in Fig. 9-3 or 9-4.	Fig. 7 Fig. 8-1 to 8 - 4
	7-3			L209	TP. 05	If waveform appears as in Fig. 9-3 or 9-4, adj. so waveform is like that in Fig. 9-5.	Fig. 8-4 to 8 - 5
		After completing step 7-3, check that the FM pilot signal and the TX-550 oscillation frequency are in phase.					
8. SEPARATION ADJ.	8-1	Set the stereo modulator to R-ch (1 kHz) and pilot.	ANT (300Ω)	R303	OUTPUT	Minimize the L-ch output pilot leakage and 1 kHz leakage level.	
	8-2	Set the stereo modulator to L-ch (1 kHz) and pilot.		R304		Minimize the R-ch output pilot leakage and 1 kHz leakage level.	
9. REC CAL LEVEL ADJ	9-1	Stereo modulation : 50%	ANT (300Ω)		OUTPUT	Measure output level with HI BLEND switch OUT. Use this value as a reference level.	
	9-2			R302		Adjust so output level of HI BLEND: REC CAL equals ref. level.	
10. L.P.F. ADJ.	10-1	Connection : As per Fig. 10 External osc. freq. = 19 kHz	TP. 08	L210 BLU (Left core)	OUTPUT (L-ch)	Minimize the output 19 kHz leakage level.	Fig. 9
	10-2		TP. 09	L211 BLU (Left core)	OUTPUT (R-ch)		
	10-3	Connection : As per Fig. 10 External osc. freq. = 38 kHz.	TP. 08	L210 ORG (Right core)	OUTPUT (L-ch)	Minimize the output 38 kHz leakage level.	
	10-4		TP. 09	L211 ORG (Right core)	OUTPUT (R-ch)		

NOTE: 1. The relation between antenna input power (dBf) and SG output level (for a 300Ω antenna) is as follows:

A. When the output level indication is the open-end output voltage (dBμ) (National SG)
dBf = SG output level (dB) −6.8 dB
SG output scale (dB) = dBf +6.8

B. When the output level indication is the matched-end output voltage (dBμ) (Meguro SG)
dBf = SG output level −0.8 dB
SG output scale (dB) = dBf +0.8

NOTE 2. The relation between the output component ratio of the stereo modulator and the SG external modulation must initially be set as follows:
Output component ratio of stereo modulator:
L + R = 90%, Pilot 10%
(Main signal (L = R) and pilot only)
L = 90%, Pilot 10% (R = 0 signal)
R = 90%, Pilot 10% (L = 0 signal)
L − R = 90%, Pilot 10%
(Subsignal (L + R = 0) and pilot only)

SG modulation degree shall be 100% (75 kHz deviation) for each of the above outputs.

4-2 AM ADJUSTMENT PROCEDURES

Common to all items SELECTOR : AM

ITEM		INITIAL SETTING	INPUT	ADJUSTING POINT	OUTPUT	ADJUSTMENT	REFERENCE
1. AM IF ADJ.		IF SWEEMAR SCOPE setting MODE : AM (INTENSITY KNOB NORM) RF OUT : 40 ~ 50 dB SWEEP (CENTER & WIDTH) : Set the IF SWEEMAR SCOPE for correct observation of the IF pass characteristic.					Fig. 10
	1-1	Dial pointer : At the left end Input signal : 455 kHz	AM ANT TERMI-NAL		TP. 02	Check that wave peak approx. 455 kHz.	Fig. 11
	1-2			L204 Primary core Secondary core		Check that wave peak matches 455 kHz marker. Adj. to max. wave peak & obtain symmetrical waveform.	
	1-3					If wave peak does not match 455 kHz mark, adj. so conditions in step 1-2 are met.	
		NOTE: L204 (AM IFT) is a ceramic coil; therefore, the center frequency cannot be changed as it is an inherent property of the ceramic coil. The coil is provided for the purpose of impedance matching.					
2. AM TRACKING ADJ.	2-1	MW SWEEMAR SCOPE setting Marker frequencies A : 522 kHz B : 600 kHz C : 1000 kHz D : 1400 kHz E : 1647 kHz	AM ANT TERMI-NAL		TP. 02	CENTER & WIDTH: Adjust so all 5 markers appear. RF OUT: 80 dB ~ 90dB GAIN: Set for optimum observation of vert. sensitivity and position.	Fig. 12
	2-2	Set dial pointer to center of "600" marking on AM kHz dial scale.		L203		Match wave peak to 600 kHz marker B.	Fig. 13 Fig. 14
	2-3			L202		Adj. for maximum wave peak.	
	2-4	Set dial pointer to center of "1400" marking on AM kHz dial scale.		AM OSC Trimmer		Match wave peak to 1400 kHz marker D.	Fig. 15 Fig. 16
	2-5			AM Tuning Trimmer		Adj. for maximum wave peak.	
	2-6	Repeat steps 2-2 through 2-5.					
	2-7	Check that all freq. from 522 kHz to 1647 kHz can be tuned in.					

4-3 TEST CONNECTIONS AND WAVE FORMS

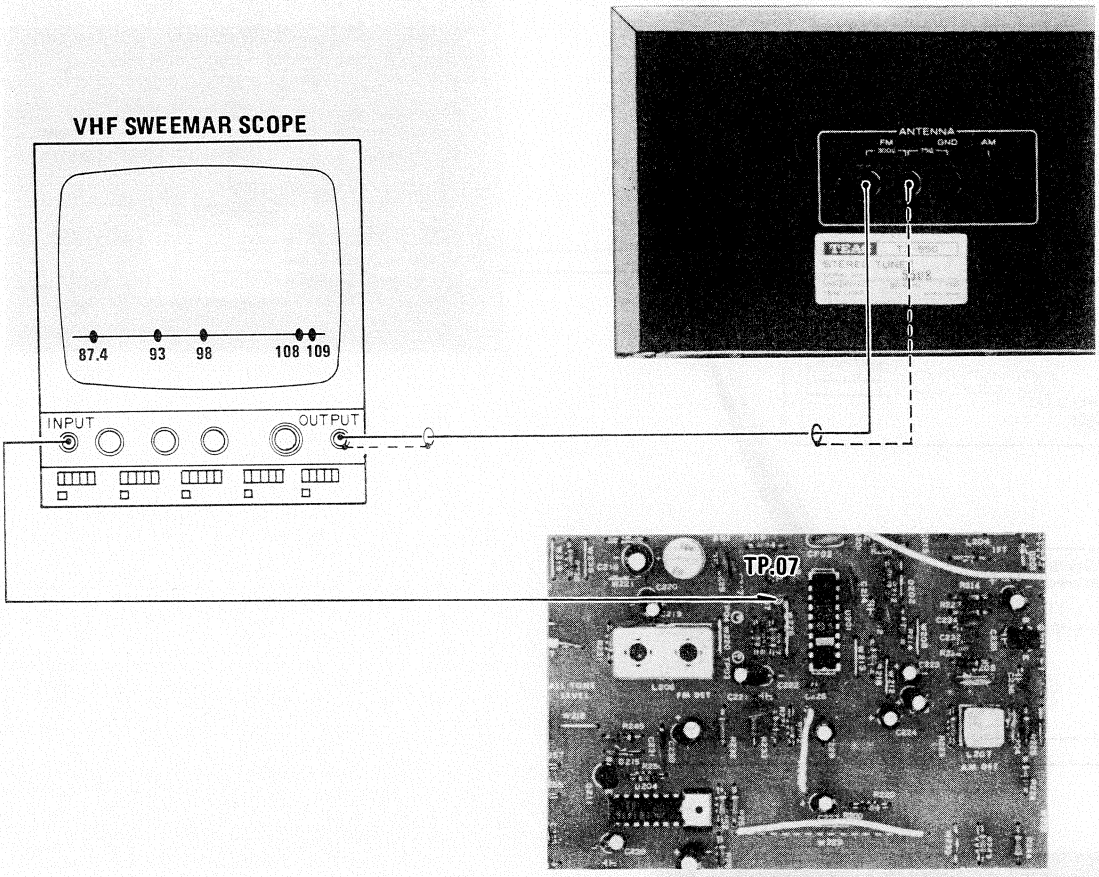


Fig. 1

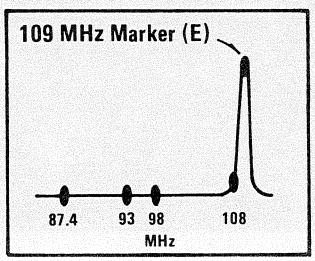


Fig. 2-1

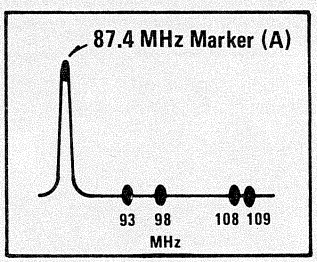


Fig. 2-2

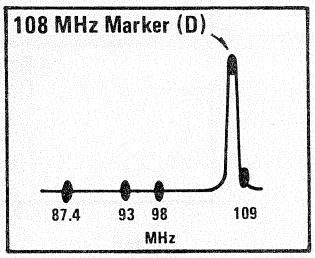


Fig. 2-3

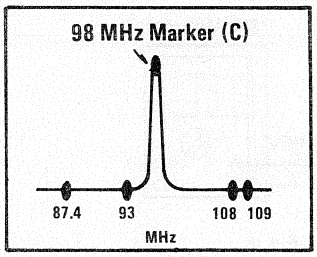


Fig. 2-4

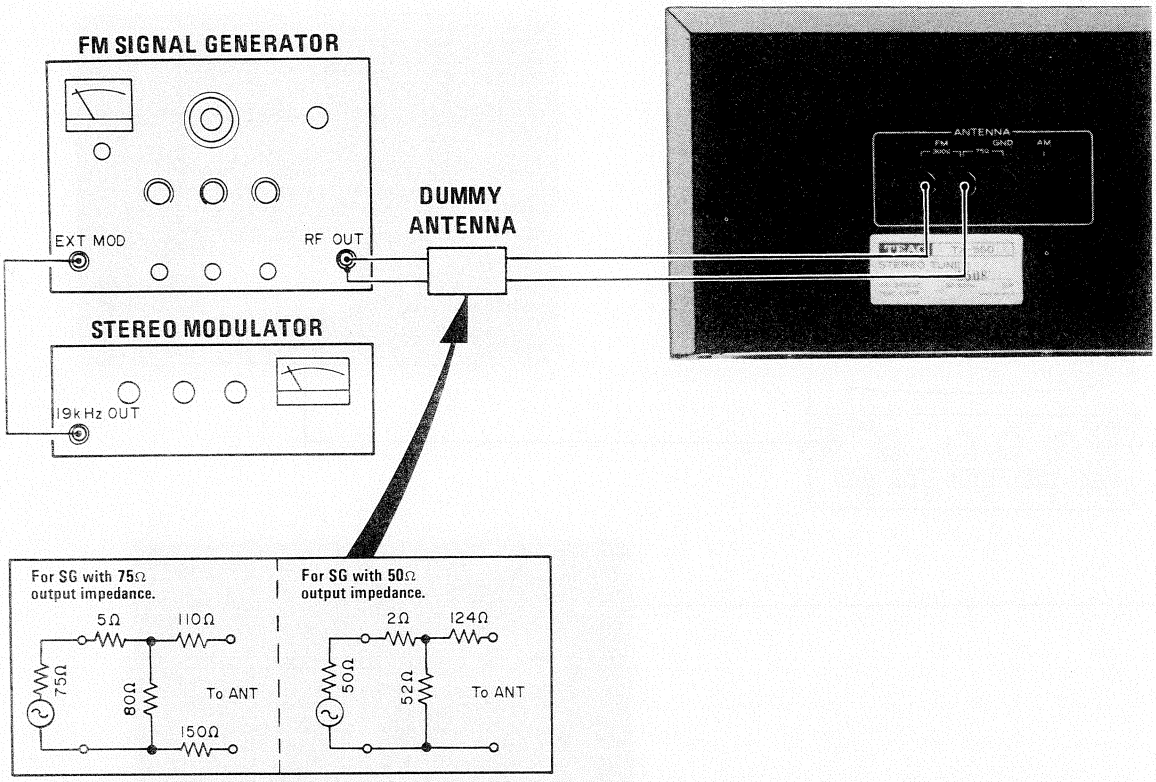


Fig. 3

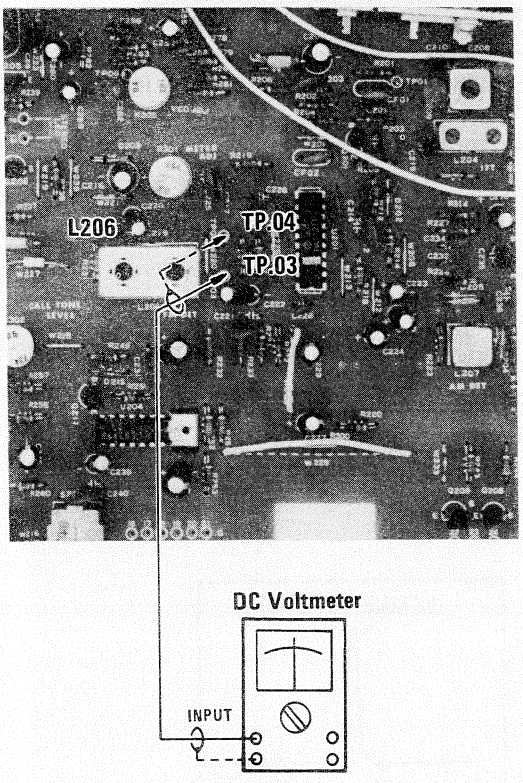


Fig. 4

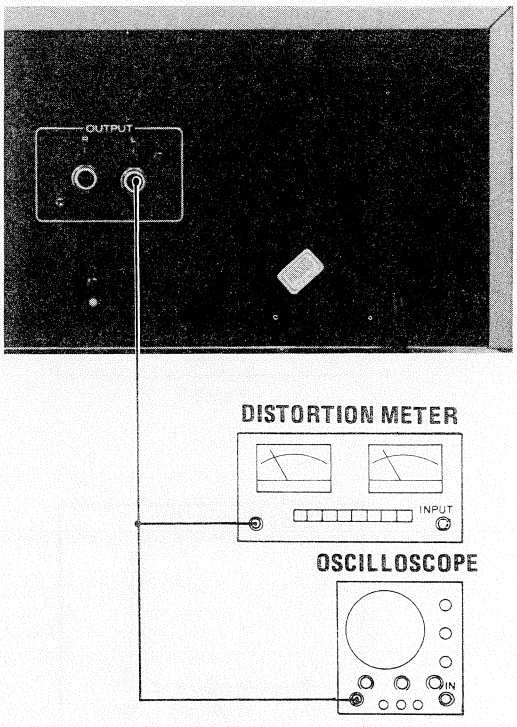


Fig. 5

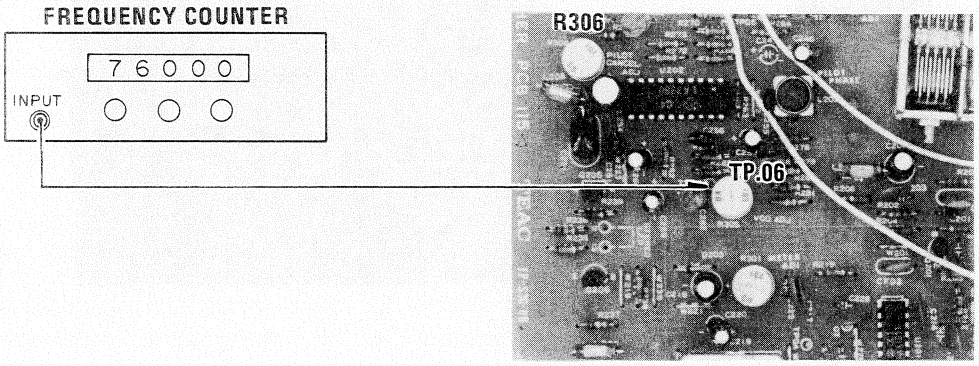


Fig. 6

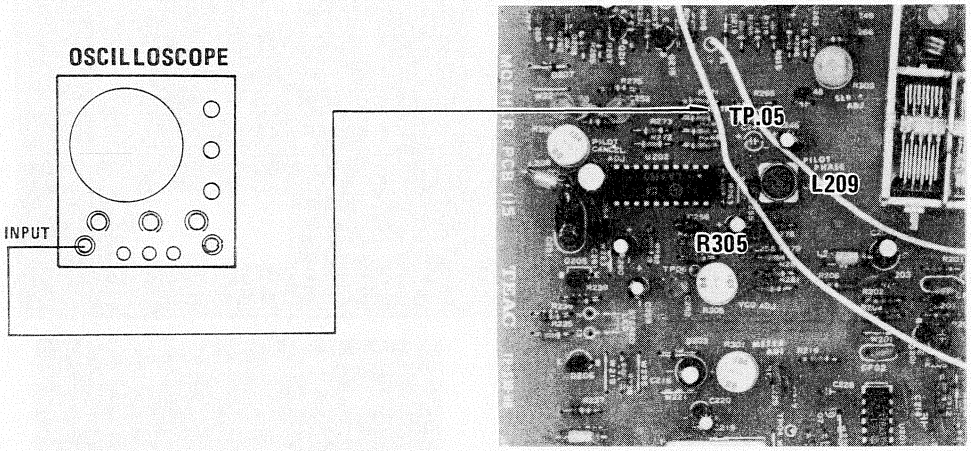


Fig. 7

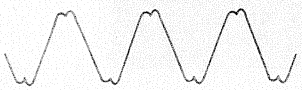


Fig. 8-1

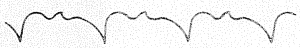


Fig. 8-3

Fig. 8-5

Fig. 8-2

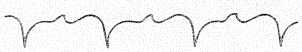


Fig. 8-4

NOTE:
The oscilloscope should be set for the following ranges to check the wave forms.

Horizontal axis: 20μSec/ div.
Vertical axis: 200mv/ div; AC

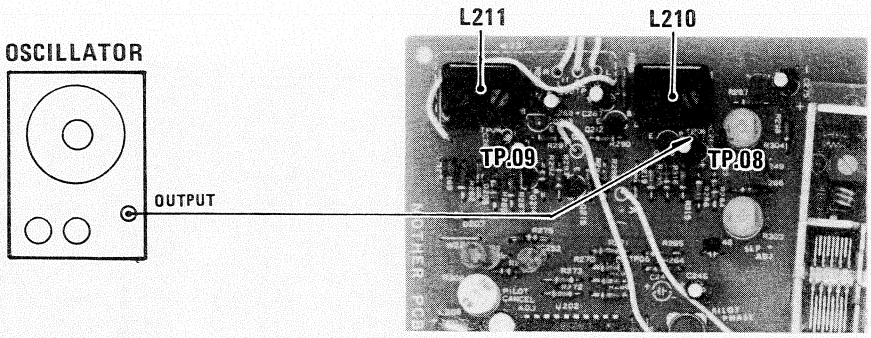


Fig. 9

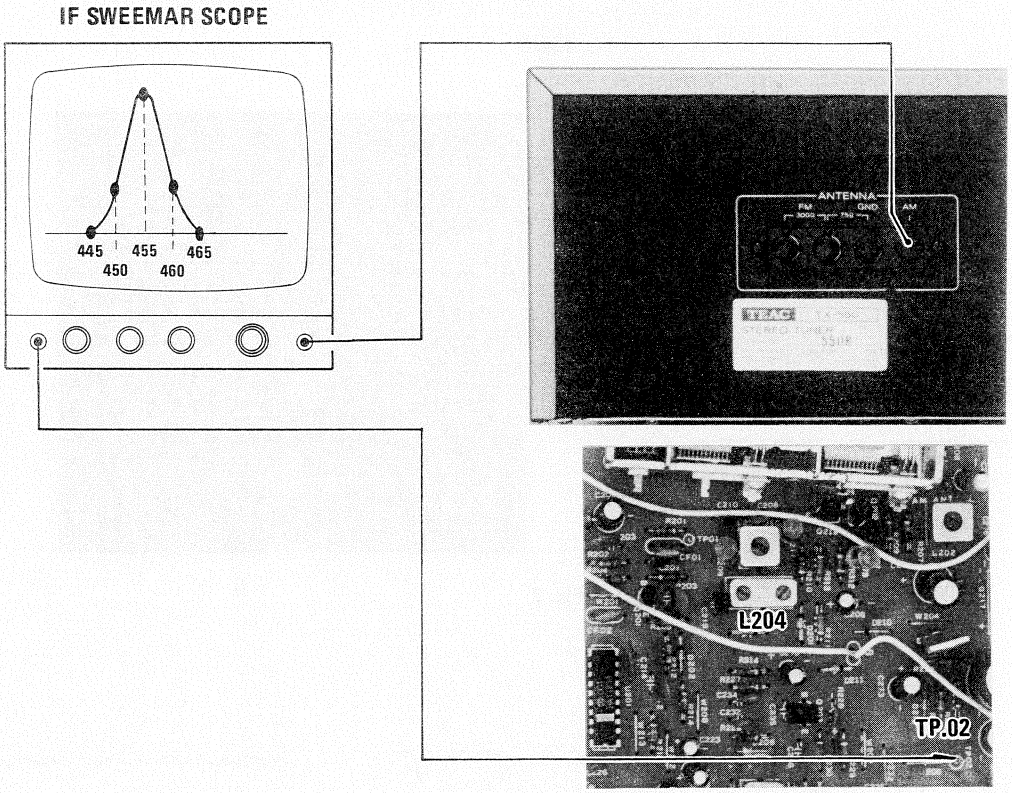


Fig. 10

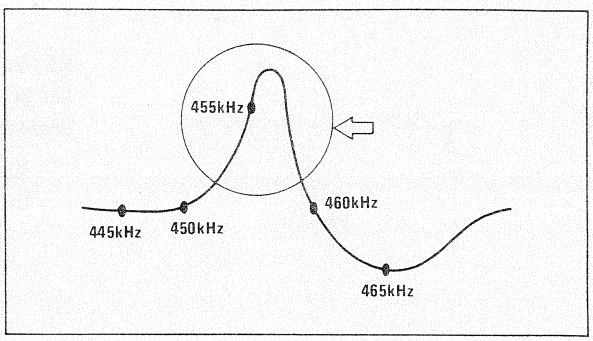


Fig. 11

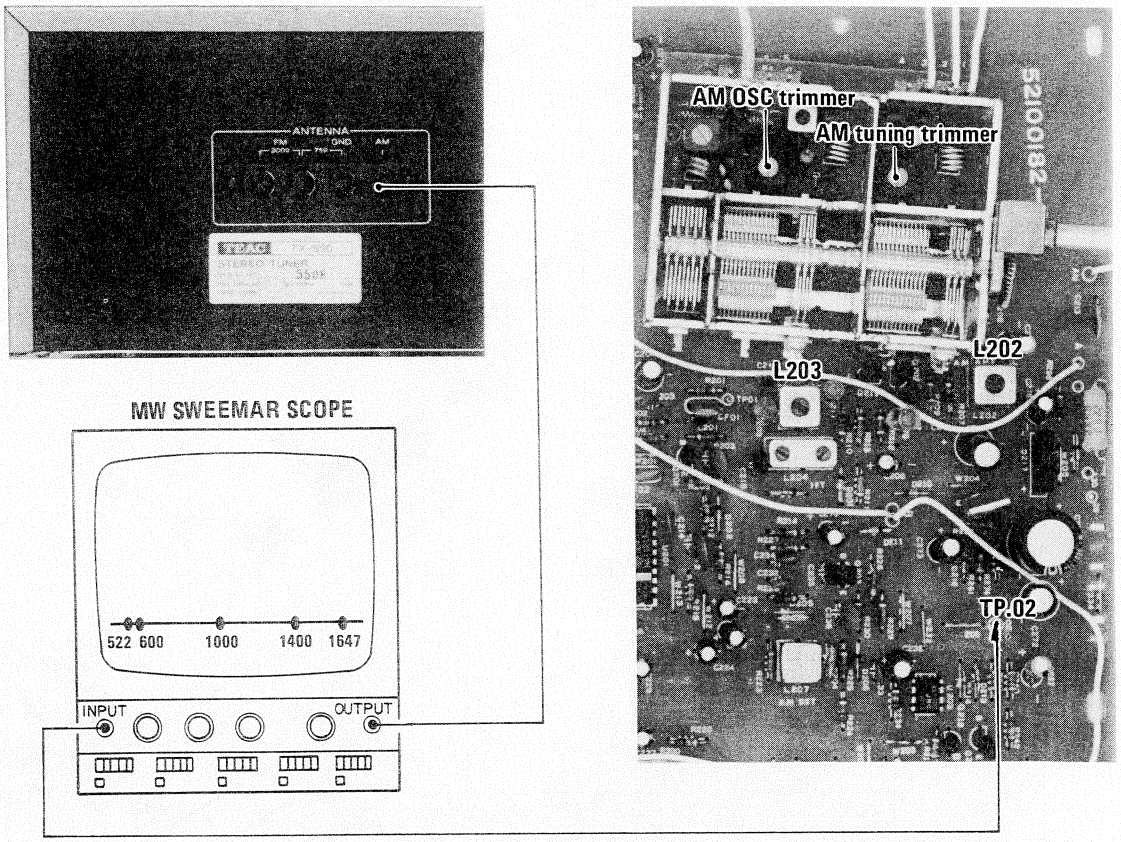


Fig. 12

Fig. 13

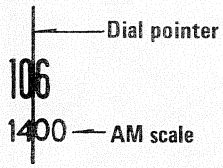


Fig. 15

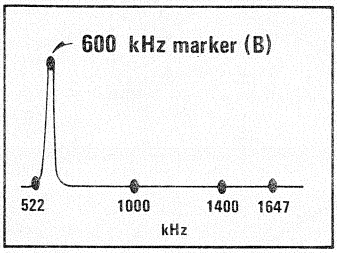


Fig. 14

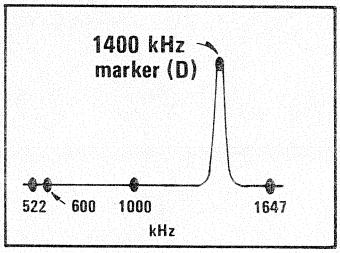
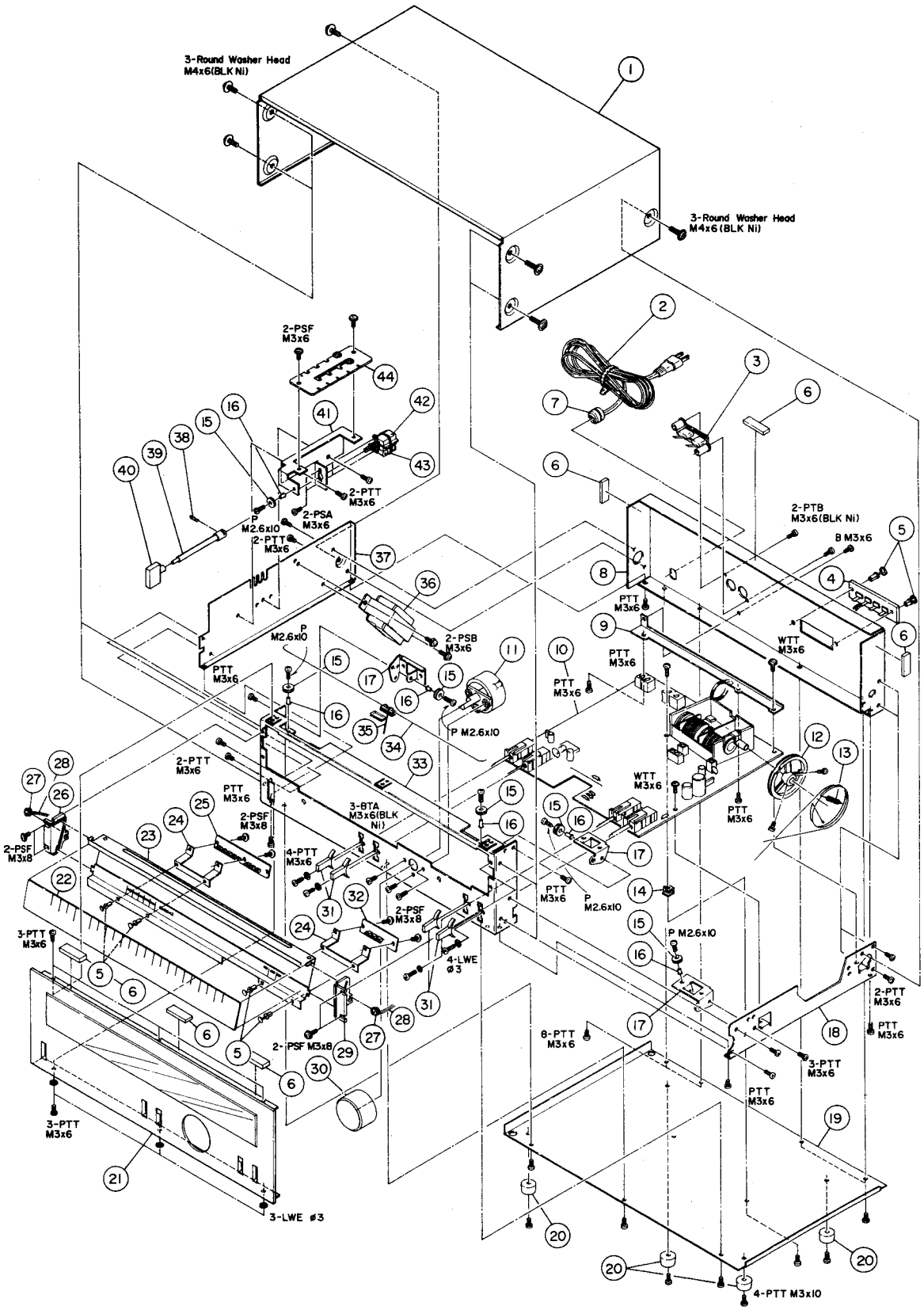


Fig. 16

5 EXPLODED VIEW AND PARTS LIST

EXPLODED VIEW



Parts marked with * require longer delivery time than regular parts.

REF. NO.		PARTS NO.	DESCRIPTION
1		* 5800009900	Cover, Top [TX-550]
		* 5552438000	Cover, Top [TX-550B]
2	⚠	5128075000	Cord, AC Power [U, C, GE]
	⚠	* 5128094000	Cord, AC Power [E]
	⚠	* 5128047000	Cord, AC Power [UK]
	⚠	* 5350008300	Cord, AC Power [A]
3		* 5128104000	Jack, Pin; 2P
4		* 5122435000	Terminal, Antenna
5		* 5534118000	Rivet, Push
6		* 5555570000	Cushion, Top Cover; B
7		* 5534660000	Strain Relief, Cord [All except UK]
		* 5534661000	Strain Relief, Cord [UK]
8		* 5800078100	Chassis, Rear
9		* 5800076500	Bracket, MOTHER PCB
10		* 5200018201	PCB Assy, MOTHER 115 [All except U]
		* 5200018211	PCB Assy, MOTHER 115 [U]
11		* 5800076100	Flywheel Assy
12		* 5534802000	Drum, Dial
13		* 5524264000	Spring, Dial
14		* 5555787000	Support, PCB; B
15		* 5534803000	Pulley
16		* 5555845000	Bushing, Pulley
17		* 5620015700	Bracket Assy, Pulley
18		* 5553329000	Chassis, R; C
19		* 5552447000	Chassis, Bottom
20		* 5534432000	Foot
21		5800086400	Panel Assy, Front [TX-550]
		5800086500	Panel Assy, Front [TX-550B]
22		* 5800076200	Plate, Dial Scale [TX-550]
		* 5800087900	Plate, Dial Scale [TX-550B]
23		* 5800077800	Back Plate, Scale [TX-550]
		* 5800084800	Back Plate, Scale [TX-550B]
24		* 5800131500	Support, LED PCB; A
25		* 5200018001	PCB Assy, LED 134
26		* 5800085400	Bracket, Side; L [TX-550]
		* 5800076800	Bracket, Side; L [TX-550B]
27		* 5534804000	Bushing, Rubber
28		* 5310005100	Lamp, 6.3V 200mA
29		* 5800085400	Bracket, Side; R [TX-550]
		* 5800076900	Bracket, Side; R [TX-550B]
30		5800077000	Knob, Tuning [TX-550]
		5800077100	Knob, Tuning; B [TX-550B]
31		5800009600	Knob, Lever SW [TX-550]
		5800018300	Knob, Lever SW [TX-550B]
32		* 5200018100	PCB Assy, LED 135
33		* 5800078200	Chassis, Front
34		* 5788200700	String, Dial
35		* 5800076600	Pointer, Dial
36	⚠	* 5320003000	Transformer, Power [U, C]
	⚠	5320002900	Transformer, Power [GE]
	⚠	5320003100	Transformer, Power [E, UK, A]
37		* 5552475001	Chassis, Left Side
38		* 5786360500	R-Pin, ϕ5
39		* 5800008300	Bar, Joint
40		5534730000	Button, Power SW [TX-550]
		5800017700	Button, Power SW [TX-550B]
41		* 5800076700	Bracket, Power SW
42	⚠	5134111000	Switch, Power [GE]
	⚠	* 5300019300	Switch, Power [U, C]
	⚠	5134125000	Switch, Power [E, UK, A]
43	⚠	* 5292002500	Spark Killer [GE]
	⚠	* 5052910000	Spark Killer [U]
	⚠	* 5052911000	Spark Killer [C]
	⚠	* 5267702600	Spark Killer [E, UK, A]
44	⚠	* 5168548100	PCB Assy, VOLTAGE SELECTOR [GE]

INCLUDE ACCESSORIES

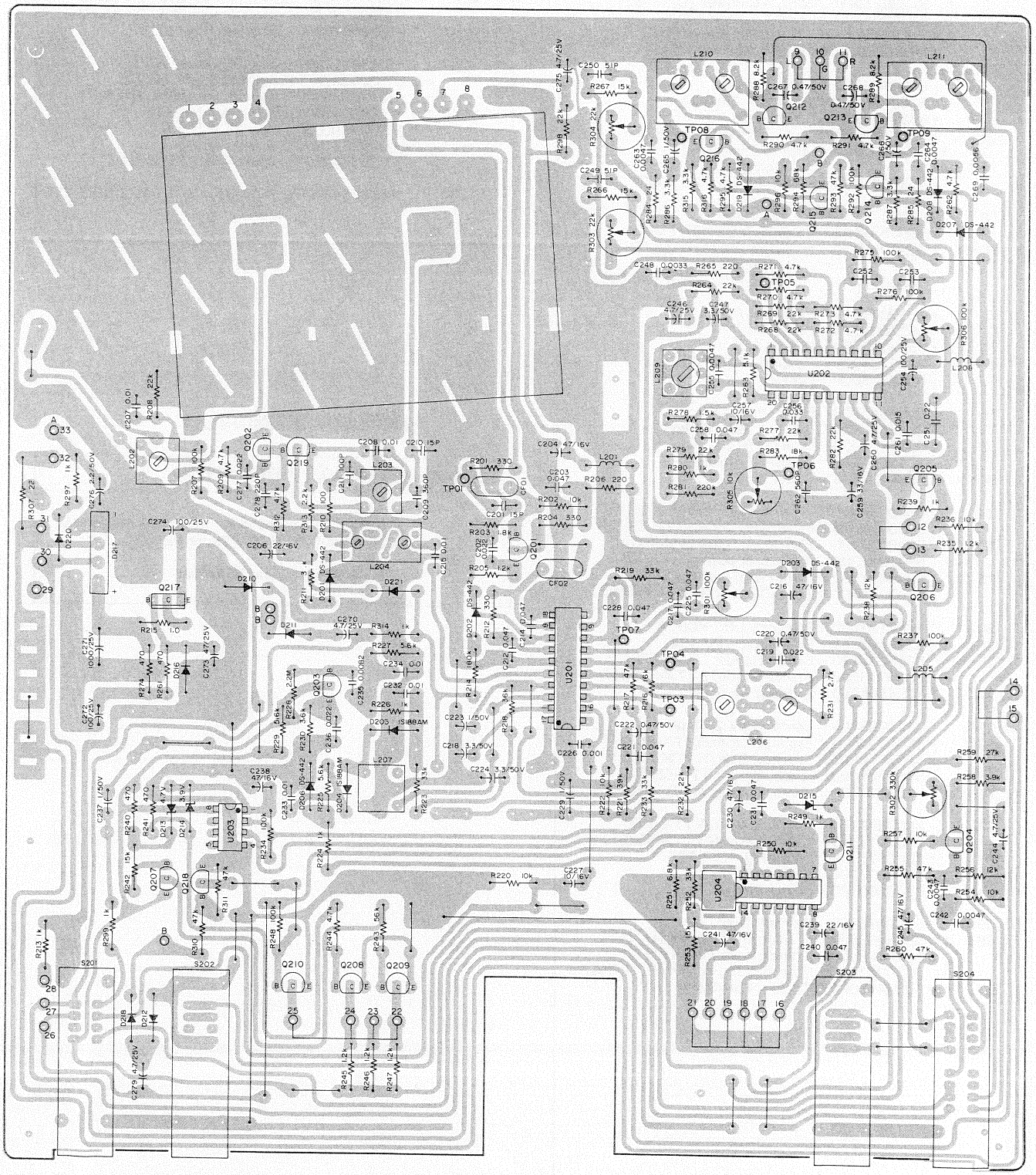
REF. NO.	PARTS NO.	DESCRIPTION
	5350007600	Cord Assy, In-output Connection
	5350505700	FM, AM Antenna Assy
	5700008400	Owner's Manual

[U]: U.S.A. [C]: CANADA [GE]: GENERAL EXPORT
[A]: AUSTRALIA [E]: EUROPE [UK]: U.K.

6 PC BOARD AND PARTS LIST

PC Board shown viewed from foil side.

MOTHER PCB 115 ASSY



MOTHER PCB 115 ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200018201	PCB 115 Assy [All except U]
	5200018211	PCB 115 Assy [U]
	5210018201	PCB 115 [All except U]
	5210018901	PCB 115 [U]
	5040104000	Front-End, FF222U
	IC'S	
U201	5220405510	HA-11211
U202	5220405710	LA-3380
U203	5147064010	NJM-4559DD
U204	5220405810	LB-1416
	TRANSISTORS	
Q201, Q202	5230771610	2SC930D
Q203 ~ Q206	5042383010	2SC536F
Q207	5230012910	2SA984K
Q208, Q209	5042383010	2SC536F
Q210	5042383010	2SC536F
Q211	5145136010	2SD400MPF
Q212, Q213	5145187010	2SD655F
Q214, Q215	5230770310	2SC1815Y
Q216	5145150010	2SA1015GR
Q217	5145088010	2SD313F
Q218	5230770310	2SC1815Y
Q219	5145150010	2SA1015GR
	DIODES	
D201 ~ D203	5224013710	DS-442
D204, D205	5224013400	1S188AM
D206 ~ D208	5224013710	DS-442
D210 ~ D212	5224013710	DS-442
D213	5224519200	Z4.7V
D214	5224519100	Z3.9V
D215	5224520100	Z7.5VL
D216	5224521300	Z13VL
D217	5224013600	1.0A
D218	5224013700	DS-442
D219	5224013700	DS-442 [U]
D220, D221	5224013700	DS-442
	RESISTORS	
	All resistors are rated ±5% tolerance, ¼ watt and are carbon type unless otherwise noted.	
R201	5183070000	330Ω
R202	5183106000	10kΩ
R203	5183088000	1.8kΩ
R204	5183070000	330Ω
R205	5183084000	1.2kΩ
R206	5183066000	220Ω
R207	5183130000	100kΩ
R208	5183114000	22kΩ
R209	5183098000	4.7kΩ
R210	5183058000	100Ω
R211	5183118000	33kΩ
R212	5183070000	330Ω
R213	5183082000	1kΩ
R214	5183136000	180kΩ
R215	⚠5184201000	1Ω Nonflammable
R216	5183111000	16kΩ
R217	5183122000	47kΩ
R218	5183119000	36kΩ
R219	5183118000	33kΩ
R220	5183106000	10kΩ

REF. NO.	PARTS NO.	DESCRIPTION
R221	5183120000	39kΩ
R222	5183106000	10kΩ
R223	5183118000	33kΩ
R224	5183082000	1kΩ
R225	5183100000	5.6kΩ
R226	5183082000	1kΩ
R227	5183100000	5.6kΩ
R228	5183162000	2.2MΩ
R229	5183100000	5.6kΩ
R230	5183095000	3.6kΩ
R231	5183092000	2.7kΩ
R232	5183114000	22kΩ
R233	5183118000	33kΩ
R234	5183130000	100kΩ
R235	5183084000	1.2kΩ
R236	5183106000	10kΩ
R237	5183130000	100kΩ
R238	5183108000	12kΩ
R239	5183082000	1kΩ
R240, R241	5183074000	470Ω
R242	5183110000	15kΩ
R243	5183124000	56kΩ
R244	5183098000	4.7kΩ
R245 ~ R247	5183084000	1.2kΩ
R248	5183130000	100kΩ
R249	5183082000	1kΩ
R250	5183106000	10kΩ
R251	5183102000	6.8kΩ
R252	5183118000	33kΩ
R253	5183110000	15kΩ
R254	5183106000	10kΩ
R255	5183122000	47kΩ
R256	5183108000	12kΩ
R257	5183106000	10kΩ
R258	5183096000	3.9kΩ
R259	5183116000	27kΩ
R260	5183122000	47kΩ
R261	5183074000	470Ω
R262	5183098000	4.7kΩ
R263	5183099000	5.1kΩ
R264	5183114000	22kΩ
R265	5183066000	220Ω
R266, R267	5183110000	15kΩ
R268, R269	5183114000	22kΩ
R270 ~ R273	5183098000	4.7kΩ
R274	5183074000	470Ω
R275, R276	5183130000	100kΩ
R277	5183114000	22kΩ
R278	5183086000	1.5kΩ
R279	5183114000	22kΩ
R280	5183082000	1kΩ
R281	5183138000	220kΩ
R282	5183114000	22kΩ
R283	5183112000	18kΩ
R284, R285	5183043000	24Ω
R286, R287	5183094000	3.3kΩ
R288, R289	5183104000	8.2kΩ
R290, R291	5183098000	4.7kΩ
R292	5183130000	100kΩ
R293	5183122000	47kΩ
R294	5183126000	68kΩ
R295	5183096000	3.9kΩ
R296	5183106000	10kΩ
R297	5183082000	1kΩ
R298	5183114000	22kΩ

[U]: U.S.A. [C]: CANADA [GE]: GENERAL EXPORT
[A]: AUSTRALIA [E]: EUROPE [UK]: U.K.

REF. NO.	PARTS NO.	DESCRIPTION
R299	5183082000	1kΩ
R307	⚠5184692000	22Ω, Metal Film Nonflammable
R310, R311	5183122000	47kΩ
R312	5183098000	4.7kΩ
R313	5183090000	2.2kΩ
R314	5183082000	1kΩ
R315	5183094000	3.3kΩ
R316	5183130000	100kΩ
	CAPACITORS	
C201	5173407000	Ceramic 15pF 50V 10%
C202	5173394000	Ceramic 0.022μF 50V 10%
C203	5173395000	Ceramic 0.047μF 50V 10%
C204	5173036000	Elec. 47μF 16V
C205	5173407000	Ceramic 15pF 50V 10%
C206	5173301800	Elec. 22μF 16V
C207, C208	5173393000	Ceramic 0.01μF 50V 10%
C209	5171733000	Polyst. 360pF 50V 2%
C210	5173407000	Ceramic 15pF 50V 10%
C211	5172480000	Polyst. 100pF 50V 10%
C212	5173395000	Ceramic 0.047μF 50V 10%
C213		(Not used)
C214	5173395000	Ceramic 0.047μF 50V 10%
C215	5170495000	Mylar 0.01μF 100V 10%
C216	5173036000	Elec. 47μF 16V
C217	5173395000	Ceramic 0.047μF 50V 10%
C218	5173000000	Elec. 3.3μF 50V
C219	5173394000	Ceramic 0.022μF 50V 10%
C220	5172990000	Elec. 0.47μF 50V
C221	5173395000	Ceramic 0.047μF 50V 10%
C222	5172990000	Elec. 0.47μF 50V
C223	5172992000	Elec. 1μF 50V
C224	5173300000	Elec. 3.3μF 50V
C225	5173395000	Ceramic 0.047μF 50V 10%
C226	5172324000	Ceramic 0.001μF 50V 10%
C227	5173018000	Elec. 10μF 16V
C228	5173395000	Ceramic 0.047μF 50V 10%
C229	5172992000	Elec. 1μF 50V
C230	5173036000	Elec. 47μF 16V
C231	5173395000	Ceramic 0.047μF 50V 10%
C232 ~C234	5173393000	Ceramic 0.01μF 50V 10%
C235	5170493000	Myler 0.0082μF 100V 10%
C236	5173394000	Ceramic 0.022μF 50V 10%
C237	5172992000	Elec. 1μF 50V
C238	5173036000	Elec. 47μF 16V
C239	5173018000	Elec. 22μF 16V
C240	5173395000	Ceramic 0.047μF 50V 10%
C241	5173036000	Elec. 47μF 16V
C242, C243	5170417000	Mylar 0.0047μF 100V
C244	5173004000	Elec. 4.7μF 25V
C245	5173036000	Elec. 47μF 16V
C246	5173004000	Elec. 4.7μF 25V
C247	5172890000	Elec. 3.3μF 50V
C248	5170483000	Myler 0.0033μF 100V
C249, C250	5170698000	Polyst. 51pF 50V 5%
C251	5170527000	Myler 0.22μF 100V 10%
C252, C253	5171741000	Polyst. 750pF 50V 2% [U]
C252, C253	5171737000	Polyst. 510pF 50V 2% [All except C]
C254	5173046000	Elec. 100μF 25V
C255	5170487000	Myler 0.0047μF 100V 10%
C256	5170507000	Myler 0.033μF 100V 10%
C257	5173010000	Elec. 10μF 16V

REF. NO.	PARTS NO.	DESCRIPTION
C258	5173395000	Ceramic 0.047μF 50V 10%
C259	5173027000	Elec. 33μF 16V
C260	5173004000	Elec. 4.7μF 25V
C261	5170499000	Myler 0.015μF 100V 10%
C262	5171738000	Polyst. 560pF 50V 2%
C263, C264	5170487000	Myler 0.0047μF 100V 10%
C265, C266	5172992000	Elec. 1μF 50V
C267, C268	5172990000	Elec. 0.47μF 50V
C269	5170489000	Myler 0.0056μF 100V 10%
C270	5173004000	Elec. 4.7μF 25V
C271	5173082000	Elec. 1000μF 25V
C272	5173046000	Elec. 100μF 25V
C273	5173037000	Elec. 47μF 25V
C274	5173046000	Elec. 100μF 25V
C275	5173004000	Elec. 4.7μF 25V
C276	5172996000	Elec. 2.2μF 50V
C277	5170503000	Myler 0.022μF 100V
C278	5172488000	Polyst. 220pF
C279	5173004000	Elec. 4.7μF 25V
	VARIABLE RESISTORS	
R301	5280062301	Semi-fixed, 100kΩ(B)
R302	5280062601	Semi-fixed, 330kΩ(B)
R303, R304	5280061901	Semi-fixed, 22kΩ(B)
R305	5280061701	Semi-fixed, 10kΩ(B)
R306	5280062301	Semi-fixed, 100kΩ(B)
	COILS	
L201	5286001500	Choke 2.0μH
L202	5286001800	Antenna 290μH
L203	5286001400	OSC 160μH
L204	5286001900	IFT (455kHz)
L205	5286001500	Choke 2.0μH
L206	5286002000	DET (10.7MHz)
L207	5286001600	DET (455kHz)
L208	5286001500	Choke 2.0μH
L209	5286001700	Trap 15mH
L210, L211	5286001300	Filter, Low - pass (19kH, 38kHz)
	MISCELLANEOUS	
CF01, EF02	5189004000	Ceramic Filter, 10.7MHz
S201	5300511800	Switch, Lever; 2 - 2M
S202	5300511700	Switch, Lever; 2 - 2B
S203	5300512100	Switch, Lever; 4 - 3B
S204	5300511700	Switch, Lever; 2 - 2B
TP01 ~ TP09	5544750000	Pin, TP

[U]: U.S.A. [C]: CANADA [GE]: GENERAL EXPORT
[A]: AUSTRALIA [E]: EUROPE [UK]: U.K.

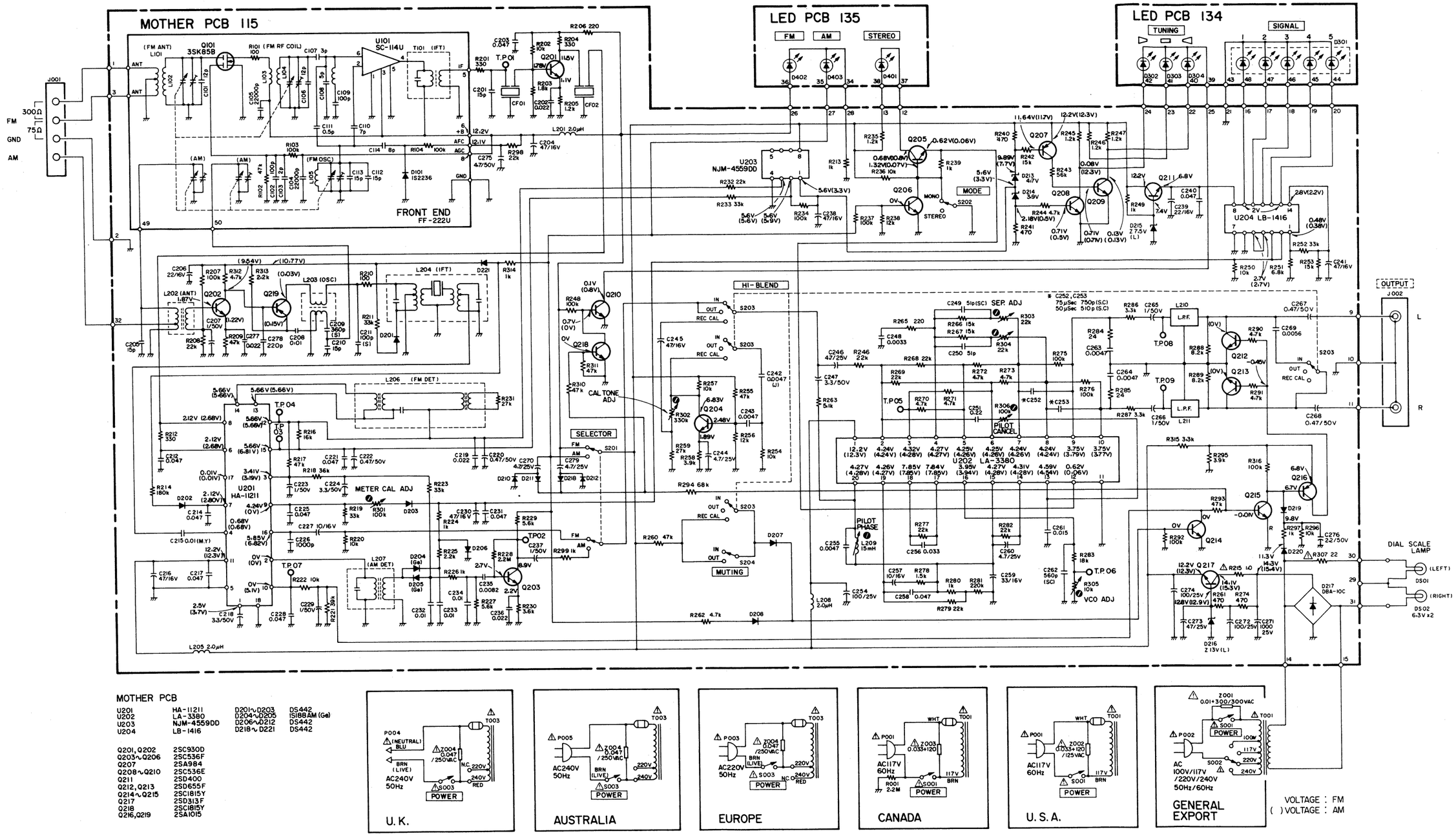
LED PCB 134 ASSY (PC Board omitted)

REF. NO.	PARTS NO.	DESCRIPTION
	5200018001	PCB 134 Assy
	5210019002	PCB 134
D301	5225005700	LED, 5-gang (Green)
D302	5225006000	LED (Green)
D303	5225005900	LED (Red)
D304	5225006000	LED (Green)

LED PCB 135 ASSY (PC Board omitted)

REF. NO.	PARTS NO.	DESCRIPTION
	5200018100	PCB 135 Assy
	5210019100	PCB 135
D401	5225005900	LED (Red)
D402, D403	5225005800	LED (Green)

TEAC SCHEMATIC DIAGRAM TX-550/TX-550B



MOTHER PCB

U201	HA-11211	D201∿D203	DS442
U202	LA-3380	D204∿D205	1S188AM (Ge)
U203	NJM-4559DD	D206∿D212	DS442
U204	LB-1416	D218∿D221	DS442
Q201, Q202	2SC930D		
Q203∿Q206	2SC536F		
Q207	2SA984		
Q208∿Q210	2SC536E		
Q211	2SD400		
Q212, Q213	2SD655F		
Q214∿Q215	2SC1815Y		
Q217	2SD313F		
Q218	2SC1815Y		
Q216, Q219	2SA1015		

VOLTAGE : FM
( ) VOLTAGE : AM

NOTES

1. ALL RESISTORS ARE ¼ WATT, 5%, UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS (k = 1,000 OHMS, M = 1,000,000 OHMS).
2. ALL CAPACITOR VALUES ARE IN MICROFARADS (p = PICOFARADS).
3. ⚠ PARTS MARKED WITH THIS SIGN ARE SAFETY CRITICAL COMPONENTS. THEY MUST ALWAYS BE REPLACED WITH IDENTICAL COMPONENTS - REFER TO THE TEAC PARTS LIST AND ENSURE EXACT REPLACEMENT.

TX-550/TX-550B

AM/FM Stereo Tuner

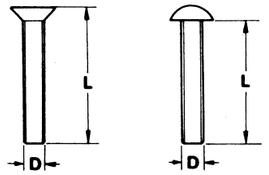
ASSEMBLING HARDWARE CODING LIST

All screws conform to ISO standards, and have crossrecessed heads, unless otherwise noted.
ISO screws have the head inscribed with a point as in the figure to the right.

FOR EXAMPLE:

B M3 x 6

- Length in mm (L)
- Diameter in mm (D) *
- Metric System
- Nomenclature



* Inner dia. for washers and nuts

	Code	Name	Type
MACHINE SCREW	R	Round Head Screw	
	P	Pan Head Screw	
	T	Stove Head Screw (Truss)	
	B	Binding Head Screw	
	F	Flat Countersunk Head Screw	
	O	Oval Countersunk Head Screw	
WOOD SCREW	RW	Round Head Wood Screw	
TAPTITE SCREW	PTT	Pan Head Taptite Screw	
	WTT	Washer Head Taptite Screw	
SEMS SCREW	BSA	Binding Head SEMS Screw(A Type)	
	BSB	Binding Head SEMS Screw(B Type)	
	BSF	Binding Head SEMS Screw(F Type)	
	PSA	Pan Head SEMS Screw(A Type)	
	PSB	Pan Head SEMS Screw(B Type)	

	Code	Name	Type
TAPPING SCREW	BTA	Binding Head Tapping Screw(A Type)	
	BTB	Binding Head Tapping Screw(B Type)	
	RTA	Round Head Tapping Screw(A Type)	
	RTB	Round Head Tapping Screw(B Type)	
SETSCREW	SF	Hex Socket Setscrew(Flat Point)	
	SC	Hex Socket Setscrew(Cup Point)	
	SS	Slotted Socket Setscrew(Flat Point)	
WASHER	E	E-Ring (Retaining Washer)	
	W	Flat Washer (Plain)	
	SW	Lock Washer (Spring)	
	LWI	Lock Washer (Internal Teeth)	
	LWE	Lock Washer (External Teeth)	
	TW	Trim Washer (Countersunk)	
NUT	N	Hex Nut	

BLOCK DIAGRAM